91-03538/

Ontario

Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

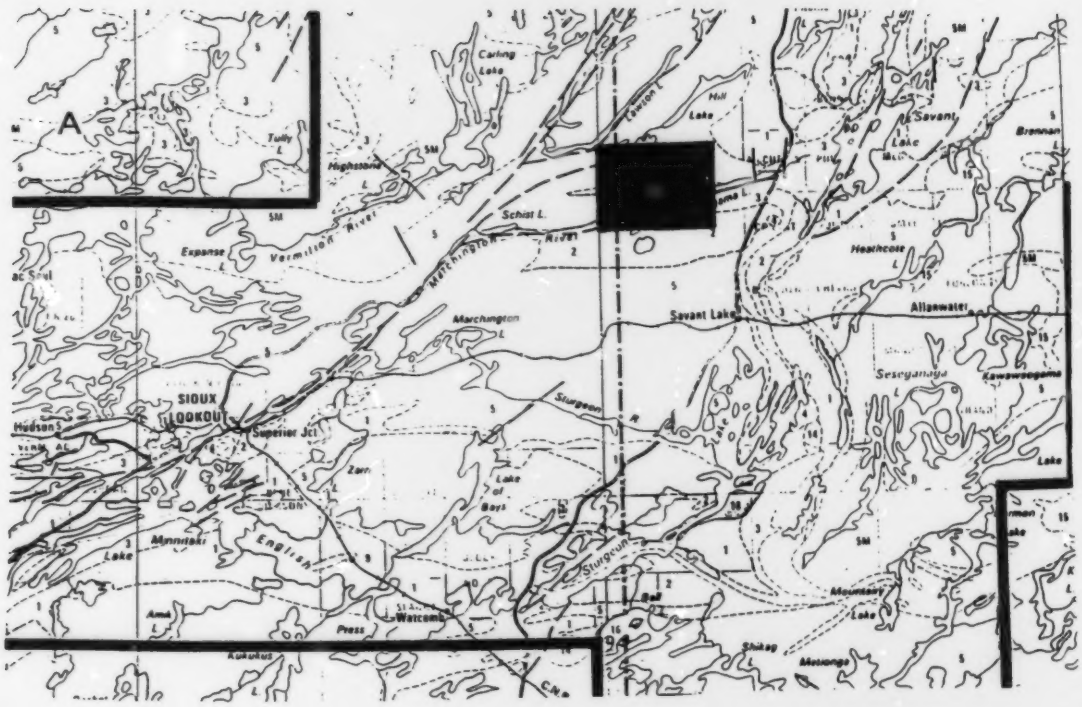
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 548

N.T.S. No. 52J/07NW

ARMIT LAKE AREA

Compiled by the staff of
the Resident Geologist's Office
Sioux Lookout



LOCATION MAP

Mining Claim Map Number G-1933

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1991. Armit Lake area, Geological Data Inventory Folio 548; compiled by the staff of the Resident Geologist's office, Sioux Lookout.

Original Compilation by: C.J. Proctor and M. Roy

Date	Page(s) Revised	Revised by

Date	Page(s) Revised	Revised by

*

TABLE OF CONTENTS

Data Sources Checklist 1

Mineral Commodities Reference List 2

Mineral Occurrences ..... 3 - 1,2. . . 3

Type of Work ..... 4 - 1,2. . . 5

Drillhole Summary ..... 5 - 1,2. . . 3

Airborne Geophysical Survey Data ..... 6 - 1

Geochemical Survey Data ..... 7 - 1

Geochronology Data ..... 8 - 1

Air Photographs, Mosaics, Imagery ..... 9 - 1

Topographic Maps ..... 10 - 1

Newspaper Clippings File ..... 11 - 1

OGS/ODM General Index Search ..... 12 - 1

Selected References ..... 13 - 1,2. . 5

Notes ..... 14 - 1

Addenda ..... 15 - 1,2

ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1 , A2

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	YES	CJP
3	OGS/ODM General Index	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	YES	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (OGS)	YES	CJP
14	Author - Subject Articles File	NO	CJP
15	ODM/OGS Miscellaneous Papers	YES	CJP
16	ODM Geological Circulars	NO	CJP
17	OGS Study Series	NO	CJP
18	ODM Preliminary Reports	NO	CJP
19	ODM Bulletins	NO	CJP
20	ODM/OGS Open File Reports	YES	CJP
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	YES	CJP
22	OGS Aggregate Resources Inventory Papers	NO	CJP
23	OGS Mineral Potential Maps	YES	CJP
24	Drill Core Library Catalogue	NO	CJP
25	Aerial Photographs	NO	CJP
26	Unpublished Theses	YES	CJP
*			

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Biogeochemical,Rock,Soil	Au,As,Ag,Pb,Zn,Cu,Mn,W Sb	Stargazer Res. L.	(52J/08NW-0033)
2	Biogeochemical	Au,As,Ag,Pb,Zn,Cu,Mn,W Sb	Stargazer Res. L.	(52J/08NW-0034)
3	Lithogeochemical,Soil	Au,As,Cu,Cr, multi-spectral	Northern Dynasty	(52J/07NW-0020)
4	Rock,Soil	Cu,Pb,Zn,Au,Ag	Redaurum Red Lake Mines L.	(52J/07NW-0021)
5	Rock,Soil	Ag,Au, multi-spectral	Northern Dynasty	(52J/07NW-0023)

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite	gl ..... Gravel	ra ..... Radioactive minerals	ADDITIONS
ank ..... Ankerite	gyp ..... Gypsum	RE ..... Rare Earths	▲ peat
ap ..... Apatite	hem ..... Hematite	sd ..... Sand	▲ chromium
arg ..... Argentite	▲ Fe ..... Iron	sgl ..... Sand and gravel	
▲ As ..... Arsenic	IF ..... Iron Formation	ss ..... Sandstone	
asp ..... Arsenopyrite	jas ..... Jasper	scap ..... Scapolite	
asb ..... Asbestos	ky ..... Kyanite	shee ..... Scheelite	
ba ..... Barite	▲ Pb ..... Lead	serp ..... Serpentine	
be ..... Beryl	lim ..... Limonite	sh ..... Shale	
Bi ..... Bismuth	Li ..... Lithium	sid ..... Siderite	
bn ..... Bornite	mgst ..... Magnesite	si ..... Silica	
Cd ..... Cadmium	mag ..... Magnetite	▲ Ag ..... Silver	
calc ..... Calcite	mc ..... Malachite	sl ..... Slate	
carb ..... Carbonate	Mn ..... Manganese	sm ..... Smaltite	
cc ..... Chalcocite	mb ..... Marble	sod ..... Sodalite	
cp ..... Chalcopyrite	mar ..... Marcasite	spec ..... Specularite	
ch ..... Chert	ma ..... Marl	sp ..... Sphalerite	
clay ..... Clay	mi ..... Mica	spd ..... Spodumene	
Co ..... Cobalt	mo ..... Molybdenite	s ..... Sulphides	
cob ..... Cobaltite	Mo ..... Molybdenum	talc ..... Talc	
▲ Cu ..... Copper	mon ..... Monazite	Te ..... Tellurium	
cor ..... Corundum	ne .... Nephelite (nepheline)	th ..... Thorite	
dol ..... Dolomite	Ni ..... Nickel	Th ..... Thorium	
ep ..... Epidote	Nb ..... Niobium	ti ..... Titanite	
fel ..... Feldspar	Pd ..... Palladium	Ti ..... Titanium	
fl ..... Fluorite (flurospar)	pent ..... Pentlandite	tour ..... Tourmaline	
fu. ..... Fuchsite	Pt ..... Platinum	W ..... Tungsten	
gn. ..... Galena	py ..... Pyrite	uran ..... Uraninite	
gt. ..... Garnet	pyl ..... Pyrochlore	U ..... Uranium	
goe ..... Goethite	po ..... Pyrrhotite	verm ..... Vermiculite	
▲ Au ..... Gold	q ..... Quartz	▲ Zn ..... Zinc	
gf ..... Graphite	qcv .. Quartz carbonate vein	zr ..... Zircon	

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks
A	NORTH KASHAWEOGAMA PROSPECT	Fe	SMDR - TB0385 Mineral Resources Circular 11, p.443-444	Map P.354 two bands of magnetite-quartz iron formation, 50-400 feet wide with a strike length of over 3 miles
B	PEATLAND 52J-125	Peat	SMDR - TB0681	OGS 1985, OFR 5543, Vol. A, p.111-119 and Figures
C	ARMIT LAKE OCCURRENCE	Fe	Mineral Resources Circular 11, p.443	Map 2064 Map P.354 magnetite-quartz-amphibole iron formation at least one mile in length a grab sample assayed 35.1% Fe
D	JOHNSON OCCURRENCE	Au,Ag,Pb	--	quartz vein up to 1' wide and 250' long grab samples collected in 1981, show assays up to 1.12 oz/ton Au, 1.01 oz/ton Ag, and 1.25% Pb

(continued next page)

MINERAL OCCURRENCES

Ref Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks
D	JOHNSON OCCURRENCE (continued)			a series of trenches, pits and a 20' shaft have been developed along the vein
E	HOEY OCCURRENCE	Au,Ag	--	file 52J/08NW-0033, p.40 maps 2, 3a, 3c file 52J/07NW-0020, p.4-5 several trenches occur along this occurrence one sample assayed 2.2 oz/ton Au, and 4.04 oz/ton Ag (file 52J/07NW-0020, p.5)
F	SPHALERITE TRENCH ZONE	Au,Cu,Zn	--	file 52J/07NW-0020, p.13,p.17 assay values of 4790 ppb Au, 550 ppm Cu, 109 ppm Zn
G	ALTERATION ISLAND ZONE	Au,Cr,Cu, As	--	file 52J/07NW-0020, p.18 assay values of up to 5440 ppb Au, 19513 ppm As, 533 ppm Cu and 231 ppm Cr
H	ARMIT LAKE GOLD SHOWING (Property #5) (BBM Gold Vein)	Au	--	file 52J/07NW-0016-A1, map 1 assay values in the various trenches range from 0.01 oz/ton Au to 2.49 oz/ton Au across 27"

(continued)

MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks
H	ARMIT LAKE GOLD SHOWING (Continued)			-file 52J/07NW-0023-plate 3
I	UNNAMED	Au,Ag	--	-sample assayed .585 oz/ton Au, and .52 oz/ton Ag -file 52J/08NW-0034, fig.5e
J	UNNAMED	Au	--	-file 52J/07NW-0021, p.19 and map 4 -a float of mafic volcanic rock with 458-1200 ppb Au
K	UNNAMED	Au	--	-file 52J/07NW-0025 -drill hole number K-89-02 assayed 1.77 g/ton over 1.3 meters

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done: e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
1	NORTHERN CDN. MS. L. (52J/10SE-0016)	62										62						
2	STARGAZER RES. L. (52J/09SW-0025)								81	81								
3	UMEX CORP. L. (52J/07SW-0017)								78	78								
4	CANEX AERIAL EXPL. L. BLACK GIANT MS. L. (52J/07SW-0018)	71										71	71					
5	CANEX AERIAL EXPL. L. (52J/07NW-0010-A1)				70													
6	CANEX AERIAL EXPL. L. (52J/07NW-0010-B1)				70													
7	NORTHERN CDN. MS. L. SAVANT LAKE IRON (52J/07NW-0010-C1)				58													
8	STARGAZER RES. L. (52J/07NW-0011-A1)				82	82												

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
9	UMEX CORP. L. (52J/07NW-0011-C1)				80													
10	QUEENSTON G. MS. L. (52J/07NW-0012)				58													
11	HOEY, F. (52J/07NW-0013-A1)	75				75						75	75					
12	FALCONBRIDGE NICKEL (52J/07NW-0013-C1)											65	65					
13	ST. JOSEPH EXPL. L. (52J/07NW-0014)					79						79	79					
14	ONT. BUREAU OF MINES (52J/07NW-0015-A1)					20						20						
15	JOHNSTON, S.C. (52J/07NW-0015-B1)											81						
16	THORSTEINSON, D.A. (52J/07NW-0015-C1)			72		72												
17	FAIRTELL GOLDMINES L. BBM INVESTMENTS (52J/07NW-0016-A1)			76		76												

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done: e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
18	HOEY, F. (52J/07NW-0016-B1)			74														
19	DOME EXPL. (CAN.) L. (52J/07NW-0017-A1)											85	85					
20	CUMBERLAND RES. L. REDFERN RES. L. VESTOR EXPL. L. (52J/07SW-0026)	84							84	84								
21	STARGAZER RES. L. (52J/08NW-0033)	81	81									81	81		81			
22	STARGAZER RES. L. (52J/08NW-0034)	82	82									82	82		82			
23	UMEX INC. (52J/07NW-0024)											88	88					
24	UMEX INC. (52J/09SW-0030)								87	87								
25	DOME EXPL. (CAN.) L. (52J/07NW-0018)				86	86												

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done; e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
26	REDAURUM RED LAKE MINES LIMITED (RAY RAMSEY) (52J/07NW-0019)											88	88					
27	NORTHERN DYNASTY L. (52J/07NW-0020)		88			88												
28	REDAURUM RED LAKE MINES LIMITED (RAY RAMSEY) (52J/07NW-0021)	88	88															
29	NORTHERN DYNASTY L. (52J/07NW-0022)											88	88					
30	NORTHERN DYNASTY L. (52J/07NW-0023)	88	88									88	88					
31	UMEX (52J/07NW-0024)											88	88					
32	NORTHERN DYNASTY EXPLORATION L. (52J/07NW-0025)				89													

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done: e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING. STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS. NOTES. CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
33	RAY RAMSAY REDAURUM RED LAKE MINES LIMITED (52J/07NE-0050)			89														

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	CANEX AERIAL EXPL. L.	118-8-4	1970	27	-60	32.00	175.00	py,po	--
2	CANEX AERIAL EXPL. L.	118-1-6	1970	38	-55	10.00	174.00	py,cp,po	--
3	NORTHERN CDN. MS. L. SAVANT LAKE IRON	2	1958	NE	-45	17.00	405.00	mag,gn,py, po,sp,cp, bn	--
4		3	1958	E	-45	5.00	450.00	cp,po,sp, mag,py	--
5		4	1958	E	-40	12.00	462.00	mag,py,po, cp,sp	--
6		7	1958	SE	-45	22.00	518.00	py,gt,mag, po,sp,cp	--
7	STARGAZER RESOURCES L.	82-4	1982	172	-45	55.00	557.00	po,py,hem	Au,As,Cu, Zn
8		82-5	1982	145	-45	10.00	447.00	cp,py,po, sp,asp	Au,As,Cu, Cr
9	UMEX CORPORATION L.	SA 55	1980	N11E	-50	9.00	267.00	po,py,cp	--
10	QUEENSTON GOLD MS. L.	1	1958	N50E	-45	7.20	128.00	py,po,cp	--
10		2	1958	N50E	-48	5.00	141.00	--	--
10		3	1958	S50W	-45	5.00	114.80	py	--
10		4	1958	S50W	-45	7.80	153.00	py,po,cp	--
10		5	1958	S50W	-45	9.60	120.60	py,po,cp	--

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled Com-pleted	Bearing Azimuth Degrees	Initial Dip of Hole Degree	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
10	QUEENSTONE GOLD MS. L.	6	1958	N50E	-40	4.00	72.50	py	--
10		12	1958	N25E	-45	16.00	90.00	po,py	--
10		13	1958	N65E	-78	7.00	212.00	po,py,cp	--
10		14	1958	N65E	-79	6.00	247.00	po,py,cp	--
11		7	1958	N50E	-45	2.00	75.50	py,po,cp	--
11		8	1958	N86E	-40	1.80	114.00	py	--
11		9	1958	N3E	-40	1.70	113.00	po,cp	--
11		10	1958	N77E	-45	12.00	95.00	py	--
11		11	1958	N21E	-50	10.00	117.00	--	--
12		15	1958	S72E	-45	5.00	95.00	po	--
12		16	1958	N9E	-45	7.00	79.00	po,cp	--
13	DOME EXPLORATION	232D-1	1986	215	-45	0.80m	137.00m	mag,py,cp, po,sp	Au
14		232D-2	1986	215	-45	3.80m	122.00m	po,mag,py, cp,gt	Au
15		232D-3	1986	215	-45	2.80m	122.00m	py,po,cp	Au
16		232D-4	1986	215	-45	1.20m	137.00m	py,po,cp,mag	Au
17		232D-5	1986	215	-45	3.80m	134.00m	py,cp,po	Au

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degree	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
18	DOME EXPLORATION	232D-6	1986	215	-45	4.25m	110.00m	py,po,cp	Au
19		232D-7	1986	215	-45	2.35m	95.00m	py,po,cp, mag,gt	Au
20		232D-8	1986	215	-45	2.10m	49.50m	py,po	Au
21	NORTHERN DYNASTY EXPL.	K-89-01	1989	--	-60	4.50m	133.80m	asp,calc, po,py,hem, mag	Au
22		K-89-02	1989	155	-60	2.10m	136.80m	py,qt,po, asp	Au
23		K-89-03	1989	190	-55	6.10m	216.10m	serp,qt,py, talc	Au
24		K-89-04	1989	160	-50	1.20m	194.70m	mag,py,po, qt,asp	Au
25		K-89-05	1989	145	-50	3.10m	243.80m	qt,po,py, sp,hem	Au

● ——— indicates core stored at Drill Core Library

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map(s)	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
2	-Geophysical Surveys Inc. -Stargazer Resources L. -1981 (52J/09SW-0025)	Magnetometer & Electromagnetic	160' 120'	NW/SE	1/10 mi.
3	-Questor Surveys Ltd. -Umex Corp. L. -1978 (52J/07SW-0017)	Magnetometer & Electromagnetic	200'	N/S NW/SE	125 m.
20	-Dighem Ltd. -Cumberland Res. L. Redfern Res. L. Vestor Exploration L. -1984 (52J/07SW-0026)	Magnetometer & Electromagnetic	45m 30m	N/S	200m
24	-Terraquest Ltd. -Umex Inc. -1987 (52J/09SW-0030)	Magnetometer & Electromagnetic	100m	45° 315°	100m

GEOCHRONOLOGY DATA - AGE DATING

Site No. on Map	Method	Material	Reference	Result
NO DATA AS OF SEPTEMBER 1989				

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs: NO DATA AS OF SEPTEMBER 1989

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:50,000	1975	KASHAWEOGAMA LAKE	Survey and Mapping Branch, Dept. of Energy, Mines and Resources
1:126,720	1975	SAVANT LAKE	Surveys and Mapping Branch, Ministry of Natural Resources

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT
NORTHERN MINER	Aug. 13/81	3	GOLEX RESOURCES
NORTHERN MINER	Aug. 13/81	3	STARGAZER RESOURCES
NORTHERN MINER	Mar. 25/82	19	STARGAZER RESOURCES
NORTHERN MINER	Mar. 10/83	2	STARGAZER RESOURCES
P.D.A. RECORDER	July, 1981	-	STARGAZER RESOURCES
GEORGE CROSS NEWS-LETTER	Aug. 16/89	?	WESTFIELD MINERALS LTD.

ARMIT LAKE AREA

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Kashaweogama Lake, Armit Lake, Fairchild Lake, Lawson Lake Lake, Gayo Lake, Dickson Lake, Winsome Lake, Normandy Lake

Index Volume	Listing	Report Volume	Part	Page
I	Lake Savant Iron Range	XIX	1	173-187
II	No listings			
III	Lake Savant Area	XXXVII	4	53-82
IV	No listings			
V	No listings			
VI	No listings			
VII	No listings			
8	Iron Deposits of Ontario	MRC11	--	443-444
8	Farrington Lake Area	MP59	--	44
9	Preliminary Geological Synthesis of the Savant Lake-Crow Lake Metavolcanic-etasedimentary Belt and its bearing upon Mineral Exploration	MP89	--	2,3,22, 24
9	Geology of the Houghton-Hough Lakes Area	GR195	--	10-96
9	Operation Miniss Tully Lakes	MP67	--	19

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
BOND, W. D.	1974	Houghton-Hough Lakes Area, District of Thunder Bay, ODM Preliminary Map P.933 Geological Series	P.933	1"=¼ mile 1:15,840
BOND, W.D.	1978	Geology of the Houghton-Hough Lakes Area (Savant Lake Area), District of Thunder Bay, OGS, Open File Report 5237, 191p.	OFR 5237	--
BOND, W.D.	1979	Houghton Lake-Hough Lake, OGS, Map 2424, Precambrian Geology Series	Map 2424	1"=½ mile 1:31,680
BOND, W.D.	1980	Geology of the Houghton-Hough Lakes Area (Savant Lake Area), Ontario Geological Survey, Report 195, accompanied by Map 2424	Report 195 Map 2424	1"=½ mile
BREAKS, F.W. BOND, W.D.	1976	Operation Miniss-Tully Lakes, District of Kenora, p.16-26 in Summary of Field Work, 1976, by the Geological Branch, ODM, MP67, 183p.	MP 67	p.16-26
BREAKS, F.W. BOND, W.D. STONE, D. DESNOYERS, D.W.	1979	Operation Miniss-Tully Lakes, Hooker-Fitchie Lakes Sheet, Districts of Kenora and Thunder Bay, OGS, Preliminary Map P.2218, Geological Series	P.2218	1"=1 mile 1:63,360
CORTIS, A.L. STOTT, G.M. OSMANI, I.A. ATKINSON, B. THURSTON, P.C.	1988	Project Number 88-10, A Geological Re-evaluation of Northwestern Greenstone Belts, p.28-52 in Summary of Field Work and Other Activities, 1988, by the OGS, Miscellaneous Paper 141, 498p.	MP141	p.18-52

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
DAVIS, D.W. BLACKBURN, C.E. TROWELL, N.F. EDWARDS, G.R.	1980	Geochronology of the Savant-Crow Lakes Area, Western Wabigoon Subprovince, Districts of Kenora, Rainy River and Thunder Bay, p.24-33 in Summary of Geochronology Studies, 1977-1979 by the OGS, Miscellaneous Paper 92, 45p.	MP 92	p.24-33
DEPT. OF MINES AND RESOURCES	1939	Kenora Sheet, Map 266A	Map 266A	1"=8 miles 1:506,880
HUDEC, P.P.	1965	Geology of Highstone Lake-Miniss Lakes Area, Districts of Thunder Bay and Kenora, Geological Report No. 32, accompanied by Maps 2063 and 2064	GR 32 Maps 2063 2064	1"=1 mile
MEYN, H.P. ROBERTSON, JAMES A.	1975	Iron Deposits of Ontario, West Central Sheet, Districts of Kenora, Thunder Bay, Algoma, Cochrane, ODM Preliminary Map P.1041, Mineral Deposits Series	P.1041	1"=16 miles 1:1,013,760
ODM	1937	Savant Lake Gold Area, District of Thunder Bay, Ontario, to accompany report of E. S. Moore in Vol. XXXVII, pt.4, Map 37j	Map 37j	1"=2 miles 1:126,720
ODM	1959	Highstone Lake-Miniss Lakes Area, Preliminary Map P.54, Kenora and Thunder Bay Districts	P.54	1"=1 mile 1:63,360
ODM	1964	Highstone Lake-Miniss Lake Area, East Sheet, Kenora and Thunder Bay Districts, Map 2064	Map 2064	1"=1 mile 1:63,360
ODM	1966	Miniss Lake Sheet, Preliminary Geological Map P.354, Districts of Thunder Bay and Kenora, Geological Compilation Series	P.354	1"=2 miles

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
ODM	1968	Sioux Lookout-Armstrong Sheet, Geological Compilation Series, Kenora and Thunder Bay Districts, Map 2169	Map 2169	1"=4 miles 1:253,440
ODM-GSC	1976	Airborne Gamma-Ray Spectrometry Survey Total Count, Sioux Lookout Sheet, District of Thunder Bay and Kenora, ODM Preliminary Map P.1112-1118, Geophysical Series	P.1112-1118	1"=4 miles 1:250,000
ODM-OGS	1961	Kashaweogama Lake, Kenora and Thunder Bay Districts, Map 1119G, Sheet 52J/7	Map 1119G	1:63,360
OGS	1979	Sioux Lookout-Armstrong, OGS, Map 2442, Geological Compilation Series, Kenora and Thunder Bay Districts	Map 2442	1"=4 miles 1:253,440
OGS	1985	Peat and Peatland Evaluation of the Sioux Lookout Area, Open File Report 5543, 4 volumes, 275p.	OFR 5543	p.111-119
PALONEN, P.A. SPEED, A.A.	1976	Armit Lake Area, Districts of Kenora and Thunder Bay, ODM, Preliminary Map P.1093, Sioux Lookout Data Series	P.1093	1"=¼ mile 1:15,840
ROBERTSON, JAMES A. VOS, M.A. SPRINGER, JANET S.	1976	Mineral Potential Map of Ontario, 1976, West Central Sheet, ODM, Preliminary Map P.1098, Mineral Deposits Series	P.1098	1"=16 miles 1:1,013,760
SHARPE, GEORGE	1972	Geology of the Savant/Kashaweogama Lakes Region	Thesis	--
SHEGELSKI, ROY JAN	1978	Stratigraphy and Geochemistry of Archaen Iron Formations in the Sturgeon Lake-Savant Lake Greenstone Terrain, Northwestern Ontario	Thesis	--

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
SHKLANKA, R.	1968	Iron Deposits of Ontario, Mineral Resources Circular 11, Ontario Department of Mines	MRC 11	p.443-444
SKINNER, R.	1968	Geology of Sioux Lookout Map Area, Ontario, A Part of the Superior Province of the Precambrian Shield, 10p., Map 14-1968	Paper 68-45 Map 14-1968	1:250,000
SPRINGER, JANET	1978	Ontario Mineral Potential, Sioux Lookout Sheet, District of Kenora and Thunder Bay, OGS, Preliminary Map P.1537, Mineral Deposit Series	P.1537	1"=4 miles 1:250,000
TROWELL, N.F.	1986	Geology of the Savant Lake Area, Districts of Kenora and Thunder Bay, OGS, Open File Report 5606, 181p.	OFR 5606	--
TROWELL, N.F.	1988	Precambrian Geology of the Savant Lake Area, District of Thunder Bay and Kenora, OGS, Map P.3099, Geological Series-Preliminary Map	P.3099	1:50,000
TROWELL, N.F. BLACKBURN, C.E. EDWARDS, G. SUTCLIFFE, R.H.	1977	Savant Lake-Crow Lake Special Project, Districts of Kenora and Thunder Bay, p.29-32 in Summary of Field Work, 1977, OGS, Miscellaneous Paper 75, 208p.	MP 75	p.29-32
TROWELL, N.F. BLACKBURN, C.E. EDWARDS, G.R.	1980	Preliminary Geological Synthesis of the Savant Lake-Crow Lake Metavolcanic-Metasedimentary Belt, Northwestern Ontario and its Bearings Upon Mineral Exploration, OGS, Miscellaneous Paper 89, 30p.	MP 89	p.1-30

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
TRUSLER, J.R.	1974	Farrington Lake ARea, District of Kenora, p.41-47 in Summary of Field Work, Miscellaneous Paper 59, 206p.	MP 59	p.41-47
TRUSLER, J.R.	1975	Farrington Lake Area, District of Kenora, ODM, Preliminary Map P.996, Geological Series	P.996	1"=¼ mile 1:15,840
TRUSLER, J.R.	1982	Geology of the Farrington Lake Area, District of Kenora, OGS, Open File Report 5354, 101p.	OFR 5354	--
VANDINE, D.F.	1989	Northern Ontario Engineering Geology Terrain Study, Savant Lake, Data Base Map, O.G.S. Map 5115	Map 5115	1:100,000
SANBORN-BARRIE, M.	1989	Geology of the Savant Lake Area in Summary of Field Work and Other Activities 1989, O.G.S., Miscellaneous Paper 146, p.54-62	MP 146	p.54-62

Note No.	NOTES
	NO DATA AS OF SEPTEMBER 1989

ADDENDA

NO DATA AS OF SEPTEMBER 1989

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

Ministry of Northern Development and Mines
Resident Geologist's Office
P. O. Box 3000
4th Avenue, Courthouse Building
Sioux Lookout, Ontario
POV 2TO

(807) 737-2037,2039

ARMIT LAKE AREA

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ☐ File covers whole township or area
- ■ Area of drilling

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2... of text

- ■ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ■ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: See pages 5-1,2... of text

- ■ Location of single drillhole, with reference number
- ■ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole; churn drilling, with reference number
- ☐

GEOCHEMICAL: See pages 7-1,2....of text

- ☐ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2... of text

- ■ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ■ Airborne electromagnetic anomaly Location of anomaly along flight line
- ■ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ Airborne radiometric anomaly

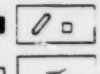
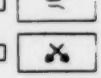
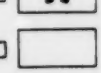
Ground Surveys

- ■ Ground magnetic anomaly
- ■ Ground electromagnetic anomaly (VL - Vertical loop, HL - Horizontal loop VLF - Very low freq., Turam; JEM - Crone Em - 16)
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly (total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly
- ☐

GEOCHRONOLOGICAL DATA: See page 8 of text

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ■  Trenching, pit
- ☐  Adit
- ☐  Sand and/or gravel pit
- ☐
- ☐ Rock quarry
- ☐ Open pit
- ☐